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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/517,686
				Filing Date	December 10, 2004
				First Named Inventor	Evert Johannes BUNSCHOTEN et al.
				Group Art Unit	
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	0470-045923

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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/H.C./	1		WO 95/17895	Ehrlich et al.	07-06-1995		
	2		DE 199 17 930 A1	Schering AG	10-19-2000		
	3		WO 00/73416	University of Cincinnati	12-07-2000		
	4		WO 01/85154 A2	Oregon Health Sciences University et al.	11-15-2001		

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/H.C./	5	ALLEN ET AL., An Ovarian Hormone: Preliminary Report on Its Localization, Extraction and Partial Purification, and Action in Test Animals, JAMA, September 8, 1923, Vol. 81, pp. 819-821.
/H.C./	6	ALLEN ET AL., The Induction of a Sexually Mature Condition in Immature Females by Injection of the Ovarian Follicular Hormone, Am. J. Physiol., 1924, Vol. 69, pp. 577-588.
/H.C./	7	FISHMAN, Fate of 15 α -Hydroxyestriol- ³ H in Adult Man, J. Clin. Endocrinol. Metab., 1970, Vol. 31, pp. 436- 438.
/H.C./	8	JONES ET AL., The Effects of Various Steroids on the Vaginal Histology in the Rat, Fertility and Sterility, April 1973, Vol. 24, No. 4, pp. 284-291.

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	10	TSENG ET AL., Competition of Esterol and Ethynylestradiol with Estradiol for Nuclear Binding in Human Endometrium, Journal of Steroid Biochemistry, 1976, Vol. 7, pp. 817-822.
	11	MARTUCCI ET AL., Uterine Estrogen Receptor Binding of Catecholestrogens and of Esterol (1,2,5(10)-Estratriene-3,15a,16a,17 β -Tetrol), Steroids, March 1976, Vol. 27, No. 3, pp. 325-333.
	12	MARTUCCI ET AL., Direction of Estradiol Metabolism as a Control of Its Hormonal Action - Uterotrophic Activity of Estradiol Metabolites, Endocrin., 1977, Vol. 101, pp. 1709-1715.
	13	TSENG ET AL., Heterogeneity of Saturable Estradiol Binding Sites in Nuclei of Human Endometrium Esterol Studies, Steroid Biochem., 1978, Vol. 9, pp. 1145-1148.
	14	HOLINKA ET AL., "In Vivo Effects of Esterol on the Immature Rat Uterus", Biology of Reproduction, Society for the Reproduction Society for the Study of Reproduction, Champaign, IL, US, March 1979 (1979-03), Vol.20, No. 2, pp. 242-246.
	15	HOLINKA, ET AL., "Comparison of Effects of Esterol and Tamoxifen with Those of Estriol and Estradiol on the Immature Rat Uterus", Biology of Reproduction, Society for the Reproduction Society for the Study of Reproduction, Champaign, IL, US, 1980, Vol. 22, No. 4, pp. 913-926.
	16	JOZAN ET AL., Different Effects of Oestradiol, Oestriol, Oestrol and of Oestrone on Human Breast Cancer Cells (MCF-7) in Long Term Tissue Culture, Acta Endocrinologica, 1981, Vol. 98, pp. 73-80.
	17	HAMMOND ET AL., A Versatile Method for the Determination of Serum Cortisol Binding Globulin and Sex Hormone Binding Globulin Binding Capacities, 1983, Vol. 132, pp. 101-110.
↓	18	LEVINE ET AL., Uterine Vascular Effects of Esterol in Nonpregnant Ewes, Am. J. Obstet. Gynecol., 1984, Vol. 148, No. 73, Pp. 735-738.

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/H.C./	19	JANSSON ET AL., "Estrogen Induces a Potent Suppression of Experimental Autoimmune Encephalomyelitis and Collagen-Induced Arthritis in Mice", Journal of Neuroimmunology, Elsevier Science Publishers BV XX, 1994, Vol. 53, No. 2, pp. 203-207.
	20	ELGER ET AL., Sulfamates of Various Estrogens are Prodrugs with Increased Systemic and Reduced Hepatic Estrogenicity at Oral Application, J. Steroid Biochem. Molec. Biol., 1995, Vol. 55, No. 3 / 4, pp. 395-403.
	21	MURPHY ET AL., Endometrial Effects of Long-Term Low-Dose Administration of RU486, Fertility and Sterility, April 1995, Vol. 63, No. 4, pp. 761-766.
	22	REEL ET AL., Survey and Assessment of Mammalian Estrogen Biological Assays for Hazard Characterization, Fundamental and Applied Toxicology, 1996, Vol. 34, pp. 288-305.
	23	BERAL ET AL., Use of HRT and the Subsequent Risk of Cancer, Journal of Epidemiology and Biostatistics, 1999, Vol. 4, No. 3, pp. 191-215.
	24	TAVANI ET AL., The Adverse Effects of Hormone Replacement Therapy, Drugs & Aging, May 1999, Vol. 14, No. 5, pp. 347-357.
	25	PIKE ET AL., Progestins and Menopause: Epidemiological Studies of Risks of Endometrial and Breast Cancer, Steroids, 2000, Vol. 65, pp. 359-664.
	26	AVVAKUMOV ET AL., Steroid-binding Specificity of Human Sex Hormon-binding Globulin Is Influenced by Occupancy of a Zinc-binding Site, The Journal of Biological Chemistry, August 25, 2000, Vol. 275, No. 34, pp. 25920-25925.

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